

Figure 1. Amino acid alignment of human CNG2B with rat OCNC2. Identical residues are shaded and numbers at the left margin indicate amino acid position.

1	MSQD <b>E</b> KVKTTTSSPPAPSKAR <b>L</b> LPVLDPSGDYVVYWWLNT	Cng2b.pro
	MSQD <b>G</b> KVKTTTES <b>T</b> PPA <b>T</b> KAR <b>K</b> LPVLDPSGDYVVYWWLNT	rOCNC2.PRO
41	MVPVPVYNNLI <b>L</b> VCRACFPD <b>L</b> QHGVLVAWLVLDYTSDDL <b>X</b>	Cng2b.pro
41	MVP <b>P</b> MYNLI <b>I</b> VVCRACFPD <b>L</b> Q <b>S</b> YLVAW <b>F</b> VLDYTSDDL <b>X</b>	rOCNC2.PRO
81	L <b>L</b> D <b>M</b> V <b>R</b> FPHTGFLEQ <b>G</b> ILVVDK <b>E</b> SSRYV <b>T</b> WS <b>F</b> L <b>D</b> L <b>A</b>	Cng2b.pro
81	L <b>L</b> D <b>I</b> G <b>V</b> RFHTGFLEQ <b>G</b> ILVVDK <b>M</b> IASRY <b>V</b> RTWS <b>F</b> L <b>D</b> L <b>A</b>	rOCNC2.PRO
121	S <b>L</b> M <b>P</b> T <b>D</b> V <b>V</b> <b>R</b> L <b>G</b> P <b>H</b> T <b>T</b> LR <b>L</b> NR <b>L</b> RA <b>P</b> RL <b>F</b> EAFD <b>R</b> T <b>E</b> T <b>R</b>	Cng2b.pro
121	S <b>L</b> V <b>P</b> T <b>D</b> A <b>A</b> <b>V</b> <b>V</b> <b>L</b> Q <b>G</b> P <b>H</b> I <b>P</b> T <b>L</b> R <b>L</b> NR <b>F</b> L <b>R</b> <b>V</b> P <b>R</b> L <b>F</b> EAFD <b>R</b> T <b>E</b> T <b>R</b>	rOCNC2.PRO
161	T <b>A</b> Y <b>P</b> N <b>A</b> F <b>R</b> I <b>A</b> K <b>L</b> M <b>L</b> <b>I</b> <b>F</b> V <b>I</b> V <b>H</b> W <b>N</b> S <b>C</b> L <b>P</b> A <b>S</b> R <b>Y</b> L <b>G</b> <b>F</b> <b>G</b> <b>R</b> <b>D</b> <b>A</b>	Cng2b.pro
161	T <b>A</b> Y <b>P</b> N <b>A</b> F <b>R</b> I <b>A</b> K <b>L</b> M <b>L</b> <b>I</b> <b>F</b> V <b>I</b> V <b>H</b> W <b>N</b> S <b>C</b> L <b>P</b> A <b>S</b> R <b>Y</b> L <b>G</b> <b>F</b> <b>G</b> <b>R</b> <b>D</b> <b>A</b>	rOCNC2.PRO
201	W <b>V</b> Y <b>P</b> D <b>P</b> A <b>Q</b> <b>G</b> <b>F</b> <b>F</b> <b>E</b> R <b>L</b> R <b>R</b> <b>Q</b> <b>Y</b> L <b>S</b> <b>F</b> <b>S</b> <b>F</b> <b>S</b> T <b>L</b> I <b>L</b> T <b>T</b> <b>V</b> <b>G</b> <b>D</b> <b>T</b> <b>E</b> <b>P</b> <b>P</b> <b>A</b> <b>R</b>	Cng2b.pro
201	W <b>V</b> Y <b>P</b> D <b>P</b> A <b>Q</b> <b>G</b> <b>F</b> <b>F</b> <b>E</b> R <b>L</b> R <b>R</b> <b>Q</b> <b>Y</b> L <b>S</b> <b>F</b> <b>S</b> <b>F</b> <b>S</b> T <b>L</b> I <b>L</b> T <b>T</b> <b>V</b> <b>G</b> <b>D</b> <b>T</b> <b>E</b> <b>L</b> <b>P</b> <b>D</b> <b>R</b>	rOCNC2.PRO
241	B <b>E</b> E <b>E</b> <b>L</b> <b>F</b> <b>M</b> <b>V</b> <b>G</b> <b>D</b> <b>L</b> L <b>A</b> <b>V</b> <b>M</b> <b>G</b> <b>F</b> <b>A</b> T <b>I</b> <b>M</b> <b>G</b> <b>S</b> <b>S</b> <b>S</b> <b>V</b> <b>I</b> <b>N</b> <b>N</b> <b>T</b> <b>A</b> <b>D</b> <b>A</b> <b>A</b> <b>F</b> <b>F</b>	Cng2b.pro
241	B <b>E</b> E <b>E</b> <b>L</b> <b>F</b> <b>M</b> <b>V</b> <b>G</b> <b>D</b> <b>F</b> L <b>L</b> <b>A</b> <b>V</b> <b>M</b> <b>G</b> <b>F</b> <b>A</b> T <b>I</b> <b>M</b> <b>G</b> <b>S</b> <b>S</b> <b>S</b> <b>V</b> <b>I</b> <b>N</b> <b>N</b> <b>T</b> <b>A</b> <b>D</b> <b>A</b> <b>A</b> <b>F</b> <b>F</b>	rOCNC2.PRO
281	P <b>D</b> H <b>A</b> L <b>V</b> <b>K</b> <b>K</b> <b>K</b> <b>M</b> <b>K</b> <b>L</b> <b>H</b> <b>V</b> <b>N</b> <b>R</b> <b>K</b> L <b>R</b> R <b>V</b> I <b>D</b> <b>W</b> <b>Y</b> <b>Q</b> <b>H</b> <b>L</b> <b>Q</b> <b>I</b> <b>N</b> <b>K</b> <b>K</b> <b>M</b> <b>T</b> <b>N</b> <b>E</b> <b>V</b>	Cng2b.pro
281	P <b>D</b> H <b>A</b> L <b>V</b> <b>K</b> <b>K</b> <b>K</b> <b>M</b> <b>K</b> <b>L</b> <b>H</b> <b>V</b> <b>N</b> <b>R</b> <b>K</b> L <b>R</b> R <b>V</b> I <b>D</b> <b>W</b> <b>Y</b> <b>Q</b> <b>H</b> <b>L</b> <b>Q</b> <b>I</b> <b>N</b> <b>K</b> <b>K</b> <b>M</b> <b>T</b> <b>N</b> <b>E</b> <b>V</b>	rOCNC2.PRO
321	A <b>L</b> <b>L</b> <b>O</b> <b>H</b> <b>L</b> <b>P</b> <b>E</b> R <b>L</b> R <b>A</b> E <b>V</b> A <b>V</b> <b>S</b> <b>V</b> <b>H</b> <b>L</b> <b>S</b> T <b>L</b> S <b>R</b> <b>V</b> <b>Q</b> I <b>P</b> <b>Q</b> <b>N</b> <b>C</b> E <b>A</b> S <b>L</b> <b>L</b> <b>B</b> <b>E</b> <b>L</b>	Cng2b.pro
321	A <b>L</b> <b>L</b> <b>O</b> <b>H</b> <b>L</b> <b>P</b> <b>E</b> R <b>L</b> R <b>A</b> E <b>V</b> A <b>V</b> <b>S</b> <b>V</b> <b>H</b> <b>L</b> <b>S</b> T <b>L</b> S <b>R</b> <b>V</b> <b>Q</b> I <b>P</b> <b>Q</b> <b>N</b> <b>C</b> E <b>A</b> S <b>L</b> <b>L</b> <b>B</b> <b>E</b> <b>L</b>	rOCNC2.PRO
361	V <b>L</b> <b>K</b> <b>L</b> <b>Q</b> <b>P</b> <b>T</b> <b>Y</b> <b>S</b> <b>P</b> <b>G</b> <b>E</b> <b>V</b> <b>C</b> R <b>K</b> <b>G</b> <b>D</b> <b>I</b> <b>G</b> <b>E</b> <b>N</b> <b>I</b> <b>I</b> <b>R</b> <b>G</b> <b>L</b> <b>A</b> <b>V</b> <b>A</b> <b>D</b> <b>D</b> <b>G</b>	Cng2b.pro
361	V <b>L</b> <b>K</b> <b>L</b> <b>Q</b> <b>P</b> <b>T</b> <b>Y</b> <b>S</b> <b>P</b> <b>G</b> <b>E</b> <b>V</b> <b>C</b> R <b>K</b> <b>G</b> <b>D</b> <b>I</b> <b>G</b> <b>E</b> <b>N</b> <b>I</b> <b>I</b> <b>R</b> <b>G</b> <b>L</b> <b>A</b> <b>V</b> <b>A</b> <b>D</b> <b>D</b> <b>G</b>	rOCNC2.PRO
401	I <b>T</b> <b>Q</b> <b>Y</b> <b>A</b> <b>V</b> <b>L</b> <b>G</b> <b>A</b> <b>G</b> <b>L</b> <b>F</b> <b>G</b> <b>E</b> <b>I</b> <b>S</b> <b>I</b> <b>I</b> <b>N</b> <b>I</b> <b>K</b> <b>N</b> <b>M</b> <b>S</b> <b>G</b> <b>N</b> <b>R</b> <b>R</b> <b>T</b> <b>A</b> <b>N</b> <b>I</b> <b>K</b> <b>S</b> <b>L</b> <b>G</b> <b>Y</b> <b>S</b>	Cng2b.pro
401	I <b>T</b> <b>Q</b> <b>Y</b> <b>A</b> <b>V</b> <b>L</b> <b>G</b> <b>A</b> <b>G</b> <b>L</b> <b>F</b> <b>G</b> <b>E</b> <b>I</b> <b>S</b> <b>I</b> <b>I</b> <b>N</b> <b>I</b> <b>K</b> <b>N</b> <b>M</b> <b>S</b> <b>G</b> <b>N</b> <b>R</b> <b>R</b> <b>T</b> <b>A</b> <b>N</b> <b>I</b> <b>K</b> <b>S</b> <b>L</b> <b>G</b> <b>Y</b> <b>S</b>	rOCNC2.PRO
441	D <b>L</b> <b>F</b> <b>C</b> <b>L</b> <b>S</b> <b>K</b> <b>E</b> <b>D</b> <b>I</b> <b>R</b> <b>E</b> <b>V</b> <b>L</b> <b>S</b> <b>E</b> <b>P</b> <b>Q</b> <b>A</b> <b>T</b> <b>I</b> <b>M</b> <b>E</b> <b>E</b> <b>K</b> <b>G</b> <b>R</b> <b>B</b> <b>I</b> <b>L</b> <b>L</b> <b>K</b> <b>M</b> <b>N</b> <b>K</b> <b>L</b> <b>D</b> <b>V</b>	Cng2b.pro
441	D <b>L</b> <b>F</b> <b>C</b> <b>L</b> <b>S</b> <b>K</b> <b>E</b> <b>D</b> <b>I</b> <b>R</b> <b>E</b> <b>V</b> <b>L</b> <b>S</b> <b>E</b> <b>P</b> <b>Q</b> <b>A</b> <b>A</b> <b>V</b> <b>M</b> <b>E</b> <b>E</b> <b>K</b> <b>G</b> <b>R</b> <b>B</b> <b>I</b> <b>L</b> <b>L</b> <b>K</b> <b>M</b> <b>N</b> <b>K</b> <b>L</b> <b>D</b> <b>V</b>	rOCNC2.PRO
481	N <b>A</b> B <b>A</b> A <b>B</b> I <b>A</b> L <b>Q</b> E <b>A</b> T <b>S</b> <b>R</b> <b>L</b> <b>R</b> <b>G</b> I <b>D</b> <b>Q</b> <b>L</b> <b>D</b> <b>D</b> <b>L</b> <b>Q</b> <b>T</b> <b>K</b> <b>F</b> <b>A</b> R <b>L</b> L <b>A</b> B <b>E</b> S	Cng2b.pro
481	N <b>A</b> B <b>A</b> A <b>B</b> I <b>A</b> L <b>Q</b> E <b>A</b> T <b>S</b> <b>R</b> <b>L</b> <b>R</b> <b>G</b> I <b>D</b> <b>Q</b> <b>L</b> <b>D</b> <b>D</b> <b>L</b> <b>Q</b> <b>T</b> <b>K</b> <b>F</b> <b>A</b> R <b>L</b> L <b>A</b> B <b>E</b> S	rOCNC2.PRO
521	S <b>A</b> L <b>K</b> I <b>A</b> <b>Y</b> <b>R</b> I <b>B</b> <b>R</b> <b>L</b> <b>E</b> <b>W</b> <b>Q</b> <b>T</b> <b>R</b> <b>E</b> <b>W</b> <b>P</b> <b>M</b> <b>P</b> <b>D</b> <b>L</b> <b>A</b> <b>E</b> <b>A</b> <b>D</b> <b>D</b> <b>E</b> <b>G</b> <b>E</b> <b>E</b> <b>G</b> <b>T</b> <b>S</b> <b>K</b>	Cng2b.pro
521	S <b>A</b> L <b>K</b> I <b>A</b> <b>Y</b> <b>R</b> I <b>B</b> <b>R</b> <b>L</b> <b>E</b> <b>W</b> <b>Q</b> <b>T</b> <b>R</b> <b>E</b> <b>W</b> <b>P</b> <b>M</b> <b>P</b> <b>D</b> <b>L</b> <b>A</b> <b>E</b> <b>A</b> <b>D</b> <b>D</b> <b>E</b> <b>A</b> <b>E</b> <b>P</b> <b>G</b> <b>E</b> <b>G</b> <b>T</b> <b>S</b> <b>K</b>	rOCNC2.PRO
561	D <b>E</b> <b>G</b> <b>C</b> <b>A</b> <b>S</b> <b>O</b> <b>G</b> <b>A</b> <b>G</b> <b>P</b> <b>D</b> <b>E</b>	Cng2b.pro
561	D <b>E</b> <b>G</b> <b>C</b> <b>A</b> <b>G</b> <b>A</b> <b>G</b> <b>P</b> <b>S</b> <b>G</b> <b>T</b> <b>E</b>	rOCNC2.PRO

Figure 2: human CNG2B sequence derived from assembly of PCR fragments

AGAGGGGAGGAGGAAAAAGAGACAGAGCTCAGGCTTCCCTCTGAGGCATGCACCCCCACCTTCTCCAGGGATCTCA  
TTAGAGGTGTTTAGCTGGGCAGGTGTAAGCCAGGCCCTGGGAGACAGGGCAGAGTGCTAGAGCTAGACTGTCTCCA  
CCCCCTCAGTAGCGCTAGCTCTGGTTGTGTTGCTAAGAGCCCCAAGACAAAGAGTCACAGCAGAAGCCCCAACAGC  
AGCCTCCTTCAGACAGTCAGGCACTAGTGCCCACTCCAGAAAGTCCCCCTACAGGCAGAGAGGGTGTGGACATCTCAC  
ACCCAGCACCCAGACCACAGAACCATGAGCCAGGACACCAAGTGAAGACAACAGAGTCCAGTCCCCCAGCCCCATC  
CAAGGCCAGGAAGTTGCTGCCTGTCTCGGCCCATCTGGGGATTACTACTACTGGTGGCTGAACACAATGGTCTTCC  
CAGTCATGTATAACCTCATCATCTCTGTGTGCAGAGCCTGCTTCCCCGACTTGCAGCACGGTTATCTGGTGGCCTGG  
TTGGTGTCTGACTACACGAGTGCCTGTCTATACCTACTAGACATGGTGGTGGCTTCCACACAGGATTCTTGAACA  
GGGCATCCTGGTGTGGACAAGGGTAGGATCTCGAGTCGCTACGTTCCGACCTGGAGTTTCTTCTTGGACCTGGCTT  
CCCTGTATGCCCAAGATGTGGTCTACGTGCGCTGGGCCCGCACACACCCCTGAGGGCTGAACCGCTTCTCCGC  
CGCCCCCGCTCTTCGAGGCCCTTCGACCGCACAGAGACCCGCACAGCTTACCCAAATGCTTTCGCAATTGCCAAGCT  
GATGCTTTACATTTTGTGCTCATCCATTGGAACAGCTGCTTATCTTTGCCCTATCCGGTACCTGGGCTTCGGGC  
GTGACGATGGGTGTACCCGACCCCGCGCAGCCTGGCTTTGAGCGCTGCGGCGCCAGTACCTCTATAGCTTTTAC  
TTCTCCACGCTGATACTGACTACAGTGGGCGATACACCGCCGCCAGGCAGGGAAGAGTACCTCTTTCATGGTGGG  
CGACTTCTGCTGGCCGTCTATGGGTTTCCGCCACCATCATGGGTAGCATGAGCTCTGTCACTACAACATGAACACTG  
CAGATGCGGCTTCTACCCAGATCATGCACTGGTGAAGAAGTACATGAAGCTGCAGCACGTCAACCGCAAGCTGGAG  
CGGCGAGTTATTGACTGGTATCAGACCTGCAGATCAACAAGAAGATGACCAACGAGGTAGCCATCTTACAGCACTT  
GCCTGAGCGGCTCGGGGCAGAAGTGCTGTGTCTGTGCACCTGTCCACTCTGAGCCGGGTGCAGATCTTTCAGAACT  
GTGAGGCCAGCCTGTGGAGGAGCTGGTGTGAAGCTGCAGCCCCAGACCTACTCACAGGTGAATATGTATGCCGC  
AAAGGAGACATTGGCCAAGAGATGTACATCATCCGAGAGGGTCAACTGGCCGTGGTGGCAGATGATGTATCACACA  
GTATGTGTGTCTCGGTGCAGGGCTCTACTTTGGGGAGATCAGCATCATCAACATCAAGGGGAACATGTCTGGGAACC  
GCCGCACAGCCAACATCAAGAGCCTAGGTTATTAGACCTATTCTGCCTGAGCAAGAGGACCTCGGGAGGTGTCTG  
AGCGAGTATCCACAAGCACAGACCATCATGGAGGAGAAAGGACGTGAGATCTCTGTGAAAATGAACAAGTTGAGCTG  
GAATGCTGAGGCAGCTGAGATCGCCCTGCAGGAGGCCACAGAGTCCCGCTACGAGGCCTAGACCAGCAGCTGGATG  
ATCTACAGACCAAGTTTGTCTGCCTCCTGGCTGAGCTGAGTGCAGCGCACTTAAGATTGCTTACCGCATTGAACGG  
CTGGAGTGGCAGACTCGAGAGTGGCCAAATGCCGAGGACCTGGCTGAGGCTGATGACGAGGGTGAGCCTGAGGAGGG  
AACTTCCAAAGATGAAGAGGCGAGGGCCAGCCAGGAGGGACCCCCAGGTCCAGAGTGACCCATCCCCATCCCCAGG  
ATTTCCACCTCCTAGTGAATCCAGAGTTGTAGTAAAGCCTAACTGCTGCAACTCTGTCACTCTGTCTGCGAGATCAC  
AGACACAGGAGCGAATTGGTCTGTAGATGCCAGCTAGAGATATAGGAGTTTAAACGCACATTACGCCCCCACTTACC  
AGTACACACACACACACACACACACATTGTGCTCATAGACCTGTGGCCCCAAGACTGTGTCATTCATCTAA

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Figure 3

## CNG2B Coding Sequence

ATGAGCCAGGACACCAAAGTGAAGACAACAGAGTCCAGTCCCCAGCCCCATCCAAGGCCAGGAAGTTGCTGCCTGT  
 CCTGGACCCATCTGGGGATTACTACTACTGGTGGTGAACACAATGGTCTTCCCACTCATGTATAACCTCATCATCC  
 TCGTGTGCAGAGCCTGCTTCCCGACTTGCAGCACGGTTATCTGGTGGCTGGTGGTGTCTGGACTACACGAGTGAC  
 CTGCTATACCTACTAGACATGGTGGTGCCTTCCACACAGGATTCTTGGAAACAGGGCATCCTGGTGGTGGACAAGGG  
 TAGGATCTCGAGTCGCTACGTTGACACCTGGAGTTTCTTCTGGACCTGGCTTCCCTGATGCCACAGATGGGTCT  
 ACGTGGCGGTGGGCCCCGACACACCCACCCCTGAGGCTGAACCGCTTCTCCGCGCGCCCCGCCCTCTCGAGGCCCTC  
 GACCCGCACAGAGACCCGCACAGCTTACCCAAATGCCCTTTCGCATTGCCAAGCTGATGCTTTACATTTTGTGCTCAT  
 CCATTGGAACAGCTGCCATATACTTTGCCCTATCCCGGTACCTGGGCTTCGGGCGTGACGCGATGGGTGTACCCGGACC  
 CCGCGCAGCCTGGCTTTGAGCGCCTGCGGCGCCAGTACCTCTATAGCTTTTACTTCTCCACGCTGATACTGACTACA  
 GTGGCGGATACACCGCCCGCAGCCAGGGAAGAAGATACCTCTTACGTGGTGGCGACTTCTGCTGGCCGTATGGG  
 TTTCCGCCACCATCATGGGTAGCATGAGCTCTGTCTATCTACAACATGAACACTGCAGATGCGGCTTCTACCCAGATC  
 ATGCACTGGTGAAGAAAGTACATGAAGCTGCAGCACGTCAACCCGCAAGCTGGAGCGCGAGTTATTGACTGGTATCAG  
 CACCTGCAGATCAACAAGAAAGATGACCAACGAGGTAGCCATCTTACAGCACTTGCCTGAGCGCTGCGGGCAGAAGT  
 GGCTGTGTCTGTGCACCTGTCCACTCTGAGCCGGGTGCAGATCTTTCAGAAGTGTGAGGCCAGCCTGCTGGAGGAGC  
 TGGTGTCTGAAGCTGCAGCCCCAGACCTACTCACCAAGTGAATATGTATGCCGCAAGGAGACATTGGCCAAAGAGATG  
 TACATCATCCGAGAGGGTCAACTGGCCGTGGTGGCAGATGATGGTATCACACAGTATGCTGTGCTCGGTGCAGGGCT  
 CTACTTTGGGGAGATCAGCATCATCAACATCAAAGGGAAATGCTGTGGGAACCGCCGCACAGCCAACATCAAGACC  
 TAGGTTATTAGACCTATTCTGCCTGAGCAAGGAGGACCTGCGGGAGGTGCTGAGCGAGTATCCACAAGCACAGACC  
 ATCATGGAGGAGAAAGGACGTGAGATCTCTGTGAAGAAATGAACAAGTTGGACGTGAATGCTGAGGCGAGCTGAGATCGC  
 CTTGCAAGGAGCCACAGAGTCCCGGTACGAGGCCCTAGACCAGCAGCTGGATGATCTACAGCAAGTTTGTCTGCC  
 TCCTGGCTGAGCTGGAGTCCAGCGCACTTAAGATTGCTTACCGCATTGAACCGCTGAGAGTGGCAGACTCGAGAGTGG  
 CCAATGCCCGAGGACCTGGCTGAGGCTGATGACGAGGGTGAGCCTGAGGAGGGAACCTCCAAGATGAAGAGGGCAG  
 GGCCAGCCAGGAGGAGCCCCAGGTCCAGAGTGTA

Figure 4  
CNG2B Amino Acid Sequence

MSQDTKVKTTESSPPAPSKARKLLPVLDPSGDYYYWNLNTMVFFVMYNLI ILVCRACFPDLQHGYLVAWLVLDTSD  
LLYLLDMVVRFHTGFLEQGILVVDKGRISRYVRTWSFFLDLASLMPTDVVYVRLGPHTPTLRLNRFLRAPRLFEAF  
DRTETRTAYPNAFRIAKMLYIPVVIHWNSCLYFALSRYLGFRDAWVYPDPAQPGFERLRQYLYSFYFSTLILT  
VGDTPPPAREEEYLFMVGDFLLAVMGFATIMGSMSSVIYNMNTADAFYPDHALVKKYMKLQHVNRKLEREVIDWYQ  
HLQINKKMTNEVAILQHLPERLRAEVAVSVHLSTLSRVQIFQNCESLLEELVLKLQPTYSFGEYVCRKGDIGQEM  
YIIREGQLAVVADDGITQYAVLGAGLYPGEISIIINIKGNMSGNRRTANIKSLGYSDLFCLSKEDLREVLSEYPPQAQT  
IMEEKGREILLKMNKLDVNAEAAEIALQEATESRLRGLDQQLDDLQTKFARLLAELESSALKIAYRIERLEWQTREW  
PMPEDLAEADDEGEPEEGTSKDEEGRASQEGPPGPE

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